

AMENDMENTS TO THE CLAIMS

(IN FORMAT COMPLIANT WITH THE REVISED 37 CFR 1.121)

Please cancel claims 12, 13 and 15-20.

1. (CURRENTLY AMENDED) A method of synchronizing a clock signal to a data signal, comprising the steps of:

(A) detecting a first edge of said data signal and a position of said first edge;

5 (B) determining if said position of said first edge is within a zone;

(C) if said first edge is not within said zone, adjusting said clock signal towards said position of said first edge;

10 (D) detecting a second edge of said data signal and a position of said second edge;

(E) determining a first value indicating ~~a~~ said position of said second edge;

15 (F) adding said first value to a second value to generate a third value, wherein said second value indicates a position of a third edge of said data signal; and

(G) adjusting said clock signal based on the result of ~~step (F)~~ said third value.

2. (CURRENTLY AMENDED) The method of claim 1, wherein step (E) further comprises:

comparing said third value to a predetermined value and
~~adjust~~ adjusting said clock signal only if said third value is
5 greater than said predetermined value.

3. (CURRENTLY AMENDED) The method of claim 2, wherein
step (B) further comprises:

determining if said third value is within a predetermined
zone and adjusting said clock signal only if said third value is
5 not within said predetermined zone.

4. (ORIGINAL) The method of claim 3, wherein step (B)
further comprises:

comparing said third value to said predetermined zone.

5. (ORIGINAL) The method of claim 1, wherein step (E)
further comprises selecting a number of clock phases based upon
said third value.

6. (ORIGINAL) The method of claim 1, wherein step (F)
further comprises:

adjusting said third value in response to said second
value when adding said first value and said second value would
5 cause an overflow or underflow.

7. (PREVIOUSLY PRESENTED) The method of claim 1,
wherein step (E) further comprises:

incrementing or decrementing said first value.

8. (ORIGINAL) The method of claim 1, wherein step (F) further comprises:

storing said first value; and
storing said second value.

9. (CURRENTLY AMENDED) The method according to claim 1, wherein step (E) further comprises:

determining a high or low bandwidth in response to steps (A) - (D).

10. (CURRENTLY AMENDED) The method according to claim 1, wherein step (E) further comprises:

determining a plurality of a phase offset magnitudes in response to steps (A) - (D).

11. (ORIGINAL) The method according to claim 1, wherein step (E) further comprises:

determining a magnitude of said third value.

12. (CANCELED)

13. (CANCELED)

14. (CANCELED)

15. (CANCELED)

16. (CANCELED)

17. (CANCELED)

18. (CANCELED)

19. (CANCELED)

20. (CANCELED)